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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,186	06/23/2003	Apostolos T. Voutsas	SLA 0773	9991
7590 12/09/2004			EXAMINER	
David C. Ripma			HITESHEW, FELISA CARLA	
Patent Counsel			ADTIDUT	
	ories of America, Inc. fic Rim Boulevard	•	ART UNIT	PAPER NUMBER
Camas, WA			1765	
Cumus, Wit	70007		DATE MAILED: 12/09/2004	;

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/602,186	VOUTSAS ET AL.				
Omce Action Summary	Examiner	Art Unit				
The MAN DIA DATE AND DATE OF THE PROPERTY OF T	Felisa C. Hiteshew	1765				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to be a APANCHET.	ely filed will be considered timely. the mailing date of this communication.				
Status		:				
1) Responsive to communication(s) filed on	1) Responsive to communication(s) filed on					
3)☐ Since this application is in condition for allowant						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>26-50</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 10</u> is/are rejected.	·					
7)⊠ Claim(s) 6-9 and 11-25 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						

Attachment(s) Notice of References Cited (PTO-892)	F-					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 10/602 186						
Information Disclosure Statement(s) (PTO-1449 or PTO/SR/08)	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)					
Patent and Trademark Office	6)					

Application/Control Number: 10/602,186

Art Unit: 1765

Information Disclosure Statement

The Information Disclosure Statement under 37 C.F.R. 1.97 has been received and reviewed. However, the information disclosure is not deemed to be pertinent over the prior art of record.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki, et al (Japanese abstract 1995-125908).

Yamazaki, et al (Japanese abstract 1995-125908) teaches a method for forming single crystal thin-film transistors formed on glass substrates, comprising forming a sub layer on a glass substrate, forming an amorphous silicon film on the sub layer,

Application/Control Number: 10/602,186

Art Unit: 1765

dehydrogenating the silicon film by H-plasma treatment, heating or laser-irradiating the crystal, patterning the crystal to produce a seed layer, depositing an amorphous silicon film over the seed layer, heating or laser-irradiating the seed layer to grow single crystal in the silicon film form the seeds, and subsequently patterning the grown silicon film to give single crystal regions on the sub layer. The single crystal regions on the sub layer are provided for active layers in the thin-film transistors.

The difference being that the Yamazaki, et al (Japanese abstract 1995-125908). does not teach the method wherein forming an insulator film overlying the substrate includes forming the insulator layer from a material selected from the group including SiO2, SiNx and combinations of SiO2 and SiNx. However, in the absence of unobvious results, it would have been obvious to one of ordinary skill in the art to modify and utilize a silicon substrate. The motivation being that one can control the grain orientation of the crystals grown in region of semiconductor film, which is useful in the production of thin film transistors.

A reference is good not only for what it teaches by direct anticipation but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprect 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode 193 USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 342 (CCPA 1968).

Expected beneficial results are evidence of obviousness, just as unexpected beneficial results are evidence of unobviousness. In re Novak 16 USPQ 2d 2041 (Fed.

Application/Control Number: 10/602,186

Art Unit: 1765

Page 4

Cir., BPAI 1989); In re Hoffman 194 USPQ 126 (CCPA 1977); In re Skoll 187 USPQ 481 (CCPA 1975); In re Skoner 186 USPQ 80 (CCPA 1975); In re Garshon 152 USPQ 602 (CCPA 1967).

Allowable Subject Matter

4. Claims 6-9 and 11-15 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursdays from 5:30 AM to 3:00 PM. and second Fridays from 5:30 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton, can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).